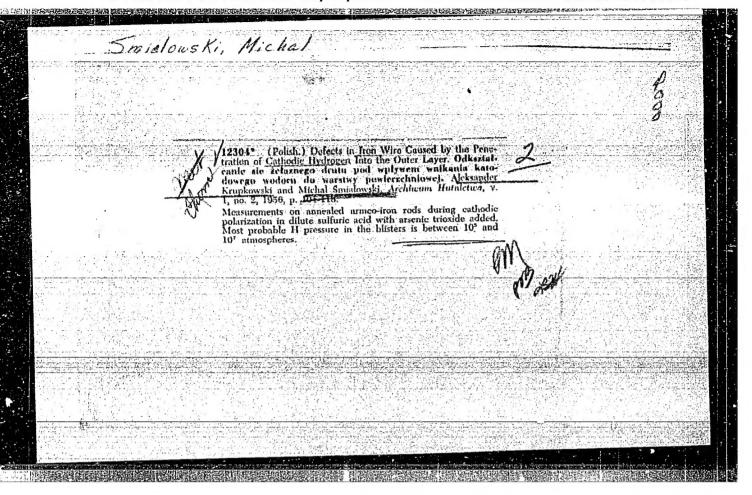
SMJALOWSKY, M.

Poland

SMJALOWSKY, M., author of "Investigation of the mechanism of hydrogen evolution on an ironucathode" (Summaries in English), presented at the 4th Electrochemical ence, Moscow, -1-6 Octo. 1956.

SOURCE: Program of the 4th Int'l Conference on Electrochemistry, Moscow, 1-6 Oct. 1956, Unclassified.



# SMYALOVSKIY

Category: Poland

B-12

Abs Jour: R Zh--Kh, No 3, 1957, 7676

Author : Smyalovskiy, M.

: Folish Academy of Sciences Inst

: On the Existence of a Quantitative Correlation Between the Overvol-Title

tage of Hydrogen and Its Solubility in Metals

Orig Pub: Byull. Pol'skoy AN, 1956, Section 3, Vol 4, No 1, 43-46.

On the basis of the interpretation of the results of partially pub-Abstract: lished work by the author (RZhKhim, 1954, 37495; 37496; 1955, 31330; 31331; RZhMet, 1956, 1659) and that of other authors on the measurement of the overvoltage (0) of hydrogen on metallic cathodes, the theory is advanced that in the case of metals with low O dehydrated protons can cenetrate into the interior of the cathode, forming intermetallic compounds of the type  $MH_X$  according to the reaction:  $x(H_30)^+$ xe , M -> M(H'e)x (1) (solid solution of MHx in metal); followed by the diffusion of the hydrogen from the interior of the metal to the

surface (M(H +e)x - ME) and the formation of H2 molecules by recombination or electrochemical desorption. The O measured for a given

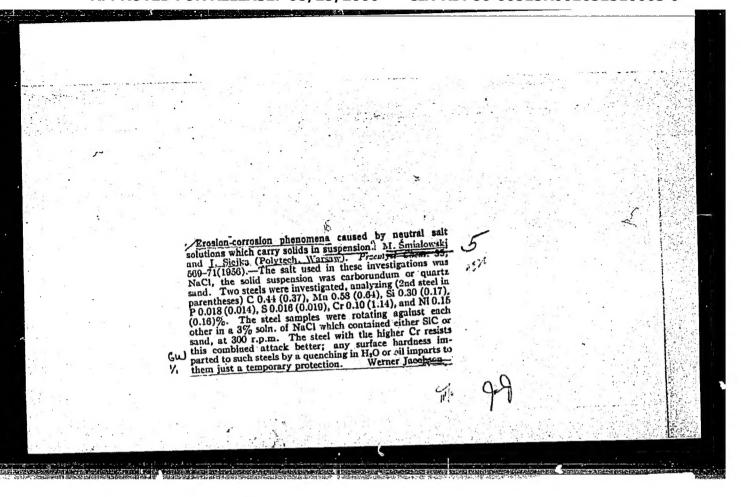
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Cat-APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651510003-9"

Abs Jour: R Zh--Kh, No 3, 1957, 7676

metal depends on both the rate of reactions (1) and  $H_{3}0 + e + M \rightarrow$ MH (i.e., on the solubility of protons in the given metal) and on the rate of desorption (i.e., on the properties of the metal surface as a catalyst for the recombination of atomic hydrogen).



SMIALOWSKI, M.

"Tasks of the 3d Section of the Polish Academy of Sciences in the light of discussion on the reform of the Polish Academy of Sciences."

p. 111 (Kosmos. Serbia B: Przyroda Nieozywiona) Vol. 3, no. 2, 1957 Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

SMINLOWSKI, 14.

, POLAND/Physical Chemistry - Electrochemistry.

B-12

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7313.

Author : B. Baranowski, Z. Szklarska-Smialowska, M. Smialowski.

Inst : Academy of Sciences of Poland.

Title : Diffusion Constant of Hydrogen in Iron Cathodes.

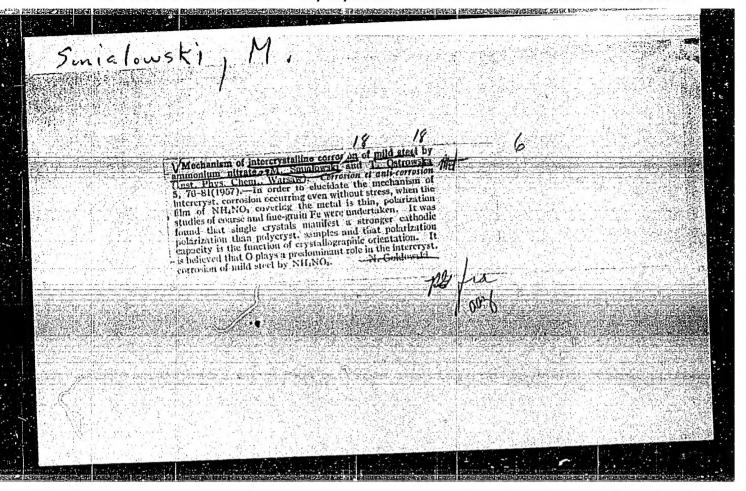
Orig Pub: Bull. Acad. polon. sci., 1957, Cl. 3, 5, No 2, 191-196,

XVII.

Abstract: The diffusion constant in iron at 20° was determined from the liberation rate (LR) of  $\rm H_2$  from Fe wire, which had been preliminarily saturated with hydrogen by cathode polarization in 1 n.  $\rm H_2SO_{l_1} + As_2O_3$ . LR was determined volumetrically, Fe being immersed in water. Two stages of  $\rm H_2$  desorption from Fe with  $\rm D_I = 5.0 \cdot 10^{-7}$  and  $\rm D_{II} = 0.6 \cdot 10^{-9}$  sq.cm per sec were revealed.  $\rm D_I$  and  $\rm D_{II}$  computed from the time necessary for the maximum stationary elongation of the Fe wire at the cathod polarization in 1 n.  $\rm H_2SO_{l_1} + As_2O_3$  (RZh-Khim, 1955, 31330) are magnitudes of

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-10-



SMIALOWSKI, M.

Comments on the letter to the editor entitled "The Potential of a Metallic Electrode Immersed in a Solution of Foreign Ions" By W. Tomassi and O. Swierszczewska, also remarks by W. Tomassi and O. Swierszczewska.

p. 365 (Roczniki Chemii) Vol. 31, no. 1, 1957, Warszawa, Poland

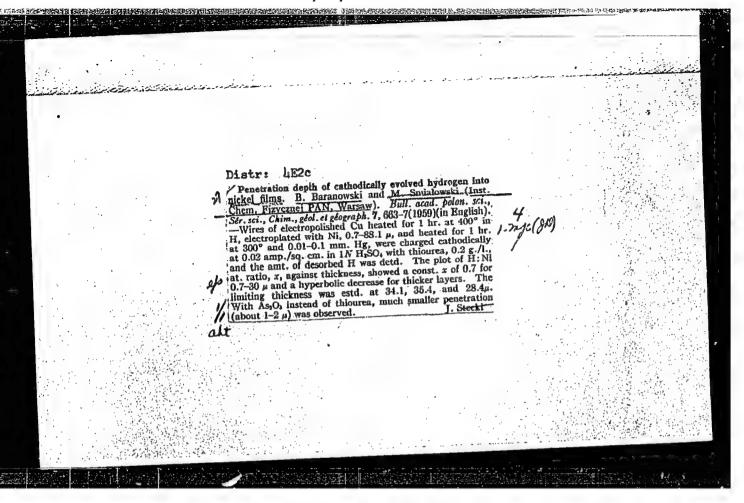
SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

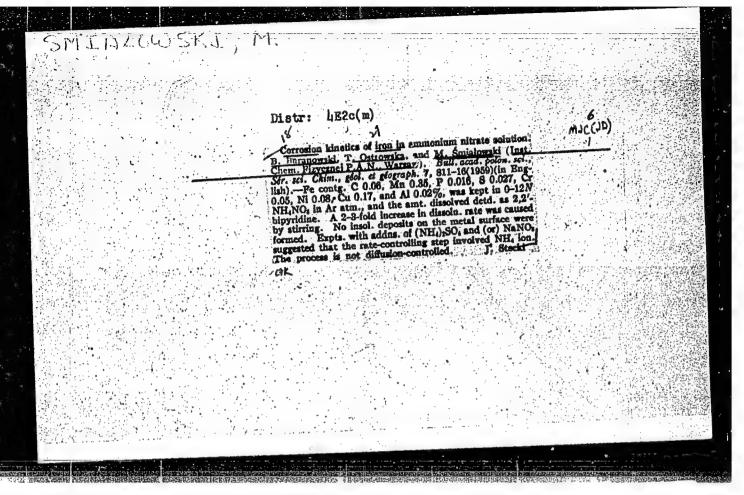
	SMIH	LOWSKI M.		В	
•	Constra	: Poland	* *	45243	
	oris Pul	b. : Bull Acad Polo 6, No 7, 427-4  t : The deflection has been used set up in the absorption of cathodic pola cm² in 0.1 N addition of C	owska, Z. and Smialo of Sciences resses in Nickel Cath 22, XXXVI-XXXVII (19) (D) of Wi specimens as a measure of the surface layer as a relectrolytic hydrogerization at 1 = 0.1. H <sub>2</sub> SO, and in 0.1 N H <sub>3</sub> O.3 gm/liter As <sub>2</sub> O <sub>3</sub> of the data obtained have in of the coefficient in Ni at room tempers	Geol et Geograph,  (53)  (ox lx 0.01)  stress (P)  result of the  en during  103-16.103 amp/  250, with the or of 0.05 gm/liter  the been used in	
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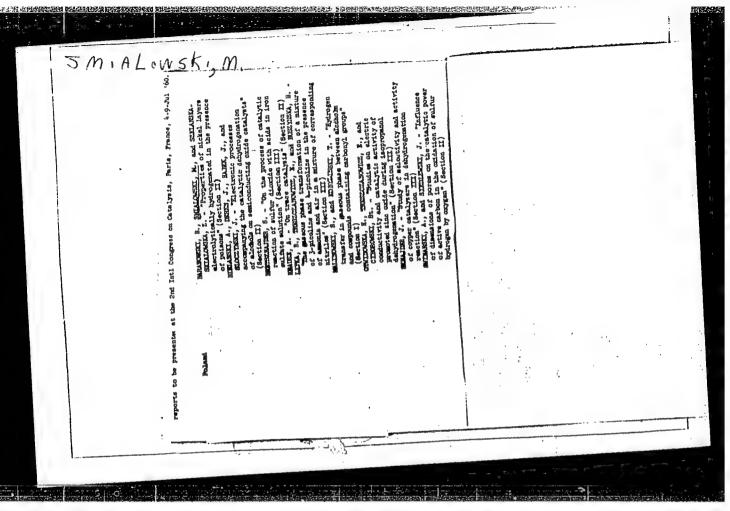
# SMIALOWSKI, M.

I The action of cathodically evolved hydrogen on iron and nickel as special cases of corrosion-embrittlement of metals. Michael Sinialowski (Polish Acad. Sci., Warsaw). Chem. of Ind. (London) 1959, 1078-83.—H embrittlement of Ni and Iron was studied by electrochem, and metallurgical methods. Embrittlement produced little or no measurable effect on the apparent ultimate tensile stress, or on the results of the notched-bar impact and fatigue tests. Brittleness was detd. quant. by a sensitive torsion test in which a wire specimen was fastened at one end, the other being rotated around the wire axis until breaking occurred. The clongation of iron rods resulting from cathodic hydrogenation in N H.SO, soln. contg. As or other catalytic poison was detd. by inductance measurements. The ability of the poisoning element to cause deformation of an iron cathode appears to be directly related to the binding force of the hydride of this element. Thus, the order of relative poisoning effect was S > P > As > Se > Sb > Te > Bi. O and N, which, form compds. with H having binding force consts. greater than that in H, have no measurable poisoning effect. Two samples of iron having different conens. of S and other Impurities showed equal degrees of embrittlement but differ-

ent clongations. This is because embrittlement depends on the degree of satur of the metal phase with at, or ionic H, where as elongation results from formation of blow-holes filled with mol. H at internal defects of the metallic structure. In the case of Ni the satn, process is different: the soly, of H is greater, but its diffusion rate is much fower than in Fe. Also, no blowholes are formed and no dimensional changes occur. The stresses produced in Ni cathodes were studied, by immersing a plate, one slide of which was coated with chloringted rubbey, in acid soln, contg. a catalytic poison, polarizing, and coting the resulting curvature. The loss of ductility observed in soft materials may be primarily due to internal stresses created in the metal phase by introduction of H atoms or ions. The state of a metal satd, with H would then be similar to the cold-worked condition. The damaging effect of H is much more severe with quenched steels. Thus, C steel quenched in oil at 800°, loaded to 20% of the tensile strength, and subjected to cathodic polarization in N'H, SO, soln, contg. As at a c.d. of 0.1 mp./sq. cm., cracked after 50 sec. Plots of time to fracture increasing with tempering temp, over the major part of the range. Similar results were obtained with Ni-Cr steel. All present theories of embrittlement are unable to account for this behavior.







RACZYNSKI, W.; SMIALOWSKI, M.

Hydrogen absorption and embrittlement produced in iron by electrolytic charging. Bul chim PAN 8 no.4:209-214 60.

(EEAI 10:9/10)

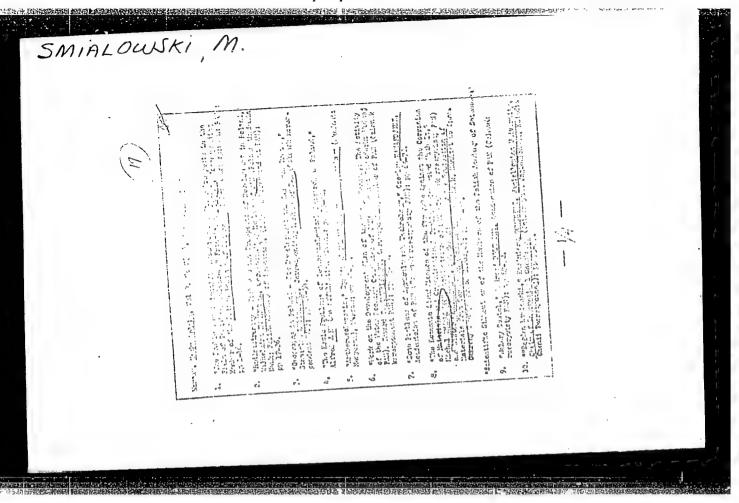
l. Institute of Physical Chemistry, Polish Academy of Sciences. Presented by M. Smialowski.

(Hydrogen) (Absorption and adsorption) (Iron)

SMIALOWSKI, Michal, prof.dr.

From studies on the mechanism of hydrogen penetration into metals during electrolysis. Wiad chem 14 no.5:273-278 My 160.

1. Kierownik Katedry Materialoznawstwa Chemicznego, Politechnika, Warszawa i członek rzeczywisty Polskiej Akademii Nauk, Warszawa.



P/501/61/000/037/003/003 D300/D307

AUTHOR:

Śmia Zowski, Michał

TITLE:

Studies of the form in which hydrogen occurs in

metals

SOURCE:

Kraków. Akademia Górniczo-Hutnicza. Zeszyty naukowe. nc. 37, 1961. Metalurgia i odlewnictwo. no. 7, 147-

TEXT:

The present paper is partly a review and partly a discussion of earlier work. Investigations of hydrogen concentration in Fe and Ni wires of various diameters and in Ni layers of variable thickness presaturated cathodically with hydrogen in the presence of catalyst poisons suggested that hydrogen may occur in Fe group metals as (a) interstitial solid solution  $\alpha$ , (b) hydrogenrich  $\beta$ -phase, and (c) free gas, in structural defects of the metal. Form (a) affects the plastic properties most strongly being most mobile, while (c) is not directly active. The  $\beta$ -phase is less  $\alpha$ , and its formation is governed by chemical kinetics. mobile than

Card 1/2

P/501/61/000/037/003/003 D300/D307

Studies of the form ...

It tends to form preferentially over & as the temperature is lowered. Assumption of the existence of these 3 forms allows a qualitative explanation of the effect of hydrogen on the physico-mechanical characteristics of the Fe group metals. There are 2 mechanical characteristics of the Fe group metals. There are 2 figures, 1 table and 23 references: 10 Soviet-bloc and 13 non-Soviet-bloc.

ASSOCIATION:

Warszawa, Instytut Chemii Fizycznej Polskiej Akademii Nauk (Warsaw, Institute of Physical Chemistry of the Polish Academy of Sciences)

Gard 2/2

S/137/62/000/002/070/1: ACC6/A101

AUTHORS:

Smialowski, M., Gasior, E.

TITLE:

The effect of hydrogen on the properties of steel

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 2, 1952, 31, abstract 21187

("Prace Inst. huth.", 1961, v. 13, no. 2, 89 - 103, Polish; Russian,

English summary)

On the basis of literature data a Fe-H phase diagram is presented for 1 atm H pressure, and the effect of H on the mechanical properties of steel and corrosion-crack sensitivity is analyzed. A separate investigation is made of the effect of H on the properties of austenite steels. Existing hypotheses on hydrogen brittleness are exposed. A particularly detailed analysis is made of inhibited failure. There are 71 references.

M. Shapiro

[Abstracter's note: Complete translation]

Card 1/1

\$/137/62/000/012/025/08**5** 4006/4191

AUTHORS:

Smialovski, M., Gasior, E., Wocławski, A., Mlynarczyk, Z.

TITLE:

The effect of cold hardening upon the retarded failure of steel

that was hydrogen-saturated by electrolysis

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 47, abstract 121283 ("Prace inst. hutn.", 1962, 14, no. 2, 95 - 100, Polish;

summaries in Russian and English)

TEXT: The authors studied the effect of the degree of cold hardening upon the proneness to retarded failure of carbon steel (0.45 and 0.85% C) in hydrogen-saturated specimens (by the method of cathodic polarization). Wires 1.5 - 3 mm in diameter, were tested. The wires were heat-treated under different conditions and then cold-hardened by drawing (up to 70%). It was established that with a higher degree of cold hardening there is an increased period of time between the beginning of cathodic polarization until the breakdown of the specimen (under tension at stresses which are 20 - 80% of  $\sigma_b$ ). At low and medium degrees of cold hardening (up to about 50%) the increasing time of retarded failure is in-

Card 1/2

The effect of cold hardening upon the...

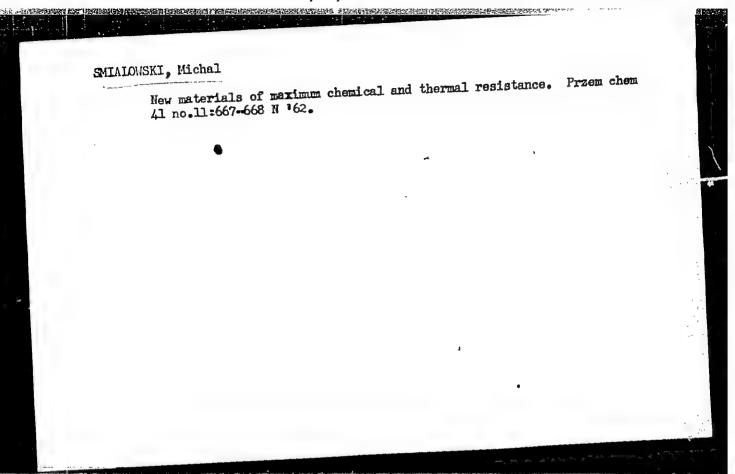
S/137/62/000/012/025/085 A006/A101

significant at a higher degree of deformation. At a high degree of cold hardening this period increases sharply. The critical degree of cold hardening, corresponding to a sharp increase in the time of retarded failure, depends upon the preceding heat-treatment and initial stress. Preliminary long-lasting H2-saturation of unloaded specimens causes, during subsequent tests for retarded failure (under conditions of continuing H2-saturation), a sharp decrease in time until the failure, independent of the heat treatment applied to the steel, and whether or not it was subjected to cold hardening. There are 15 references.

From the summary

[Abstracter's note: Gomplete translation]

Card 2/2



SMIALOWSKI, Michal

The significance of chemistry and chemical research; the condition of such in Poland and the role of the Polish Academy of Sciences. Review Pol Academy 8 no.2:1-12 Ap-Je 163.

SMIALOWSKI, Michal

Organization of higher education and research on technology in the United States. Nauka polska 11 no.1:141-150 Ja-F '63.

1. Czlonek rzeczywisty Polskiej Akademii Nauk, Warszawa.

SMIALOWSKI, Michal

Importance of chemistry and chemical research, their present state in Poland and role of The Polish Academy of Sciences. Nauka polska 11 no.2:1-27 Mr-Ap '63.

1. Czlonek rzeczywisty Polskiej Akademii Nauk, Warszawa.

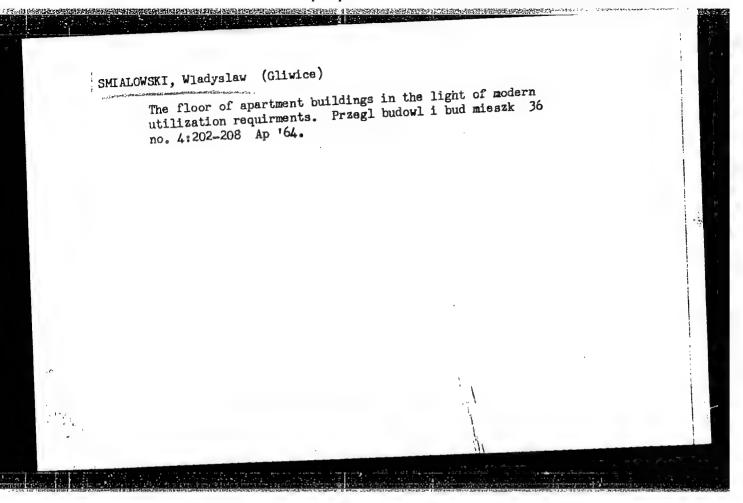
SMIALOWSKI, Michal, prof. dr.

Chemical research and the industry. Problemy 19 no.2:71-84 163.

l. Kierownik Katedry Materialoznawstwa, Politechnika, Warszawa, członek rzeczywisty Polskiej Akademii Nauk, Warszawa, sekretarz Wydzialu III Polskiej Akademii Nauk, dryrektor Instytutu Chemii Fizycznej, Polska Akademia Nauk, Warszawa.

BARBAG, Jozef; PIOTROWSKI, Stefan; SMIALOWSKI, Michal (Warszawa)

Present state of the sciences belonging to the scope of activities of Department III of the Polish Academy of Sciences. Nauka polska 12 no.2:48-81 '64.



# SMIALOWSKI, Wlodzimierz Morphology of the trapezius with special reference to its constitutional characteristics. Fol.morph., Warsz. 6 no.3: 163-180 '55. 1. Z Zakladu Anatomii Prawidlowej A.M. w Lodzi, Kierownik: prof. dr T. Wasilewski. (BACK, muscles, trapezius, anat. & constitutional aspects) (BODY CONSTITUTION, constitutional aspects)

SOKOLOWSKI, Janusz; PUROWSKA, Maria; SMIATACZ, Zygfryd

Benzylidene derivatives of N-glucosides. Matem fiz chem Gdansk 2 117-121 '62.

1. Department of Organic chemistry, School of Education, Gdansk.

SOKOLOWSKI, Janusz; FIALKIEWICZ, Zofia; SMIATACZ, Zygfryd; WASIELEWSKI, Czeslaw

Configuration and conformation of N-glycosides. Pt. 1. Rocz chemii 37 no.5:515-523 '63.

1. Department of Organic Chemistry, Normal School, Gdansk.

SOKOLOWSKI, Janusz; SMIATACZ, Zygfryd; SZAFRANEK, Janusz

Configuration and conformation of M-glycosides. Pt. 2. Rocz chemii 37 no.5:525-536 63.

1. Department of Organic Chemistry, Normal School, Gdansk.

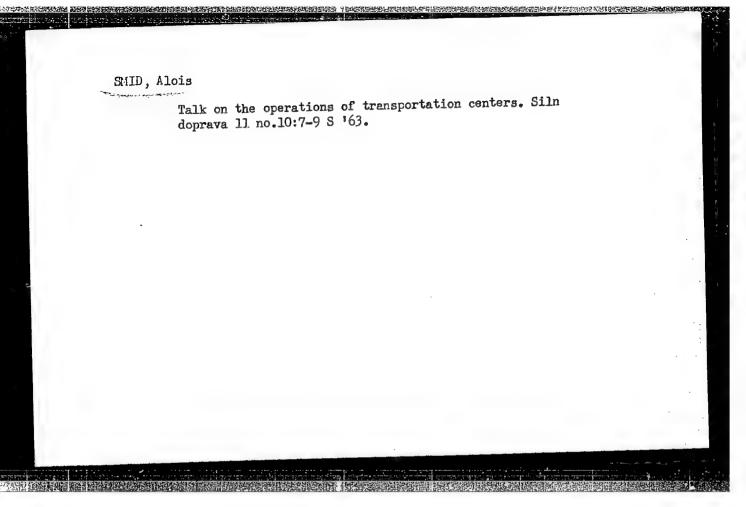
It is easy to work if there is a clear objective ahead. Sov.mrofsoiuzy 17 no.4:14-15 F '61.

1. Brigada kommunisticheskogo truda Luganskogo tonkosukonnogo kombinata. (Lugansk—Textile industry) (Socialist competition)

RADOCHOVA,D.; CHROBAK,L.; SMID,A.; SVANDA,J.

Survival of Cr51-labelled erythrocytes in permicious anemia with positive direct Coombs' test. Vnitrni lek. 11 no.1: 37-40 Ja '65

1. I. Vnitrní klinika LFRU v Hradci Kralove (prednostaprof. MUDr. Frant. Cernik, VI. EVU J.E. Purkyne v Hradci Kralove).



SMID, Antonia Capt ANTONIN SMID, MD.

"The Effects of Fatigue on Blood Formation of Irradiated Animals," by Capt Antonin Smid, MD, "Jan Ev. Purkyne" Military Medical Academy [in Hradec Kralove], Vojenske Zdravotnicke Listy, Vol XXV, No 10, Oct 56, pp 449-452

The author describes tests to determine whether the harmful effects of radiation on blood formation are greater in animals under physical strain. The tests were carried out on rats receiving doses of 800, 600, 800, and 200 roentgens, with a period of 2 minutes 40 seconds for each 100 tool, and 200 roentgens, with a period of 2 minutes 40 seconds for each 100 roentgens. The rats were fatigued by swimming both before and after irraroentgens. The rats were fatigued by swimming both before and after irraroentgens, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation, blood samples were taken at various intervals for a period of diation is increased by fatigue.

Sum 1258

SALAVEC, M.; RADOCHOVA, D.; SHID, A.; SVANDA, J.

CSSR

I. and III Internal Clinic of the Medical Faculty, Charles University (I a III interni klinika lekarske fakulty University Karlovy), Hradec Kralove, dept. director: docent Dr F. Cernik; Military Medical Research and Postgraduate Institute (Vojensky lekarsky vyzkumny a doskolovaci ustav), Hradec Kralove (for all)

Prague, Fysiatricky Vestnik, No 6, 1962, pp 330-333

"Participation of the Haemolytic Component in the Occurence of Anemia in Rheumatoid Arthritis"

MRAZ, Josef; SMID, Antonin; TKADLECEK, Ludvik

Some comments on experimental bone marrow transplantation. Sborn.ved. prac. lek. fak. Karlov. Univ. (Hrad.Kral.) 6 no.3:Supplement:373-380 \*63.

1. Katedra radioviologicka; vedouci: MUDr. J.Mraz, CSc.

是这种种种的现在是这种的人,这是这种,这种是一种的,我们就是这种种的,我们就是这种的一种,我们可以是这种的一种,我们就是这种的人,这种是一种,我们就是这种的人,

RADOCHOVA, Dagmar; SHID, Antonin; CHROBAK, Ladislav; KORINEK, Jan; PROCHAZKA, Jaroslav, prof. MUDr., DrSa.

A contribution to the examination of anemia in patients after operations with the use of extracorporeal circulation. Sborn. ved. prac. lek. fak. Karlov. Univ. 9 no.1:127-132 '64.

1. I. intermi klinika (prednosta: prof. MUDr. F. Cernik)
Lekarske fakulty Karlovy university; Ustav hematologie a
krevni transfuze, Lekarske fakulty Karlovy University,
Praha (prednosta: prof. MUDr. J. Horejsi, DrSc.) a Chirurgicka klinika (prednosta: prof. MUDr. J. Prochazka, DrSc.).

RADOCHOVA, Dagmar; SMID, Antonin; CHROBAK, Ladislav.

Erythrokinetics in old age with the aid of Cr51 and Fe59. Sborn. ved. prac. lek. fak. Karlov. Univ. 9 no.1:357-368 '64.

1. I. interni klinika (prednosta: prof. MUDr. F. Cernik) a Radiobiologicka klinika (prednosta: MUDr. J. Mraz, CSc) Karlovy University v Hradci Kralove.

SMID, B.

Roentgenometric investigation of natural copper phosphates. p.67. (Casopis Ceskoslovenskych Ustavnu Astronomichkych, Vol. 67, No. 5, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

SMID, B.

GEOGRAPHY & GEOLOGY

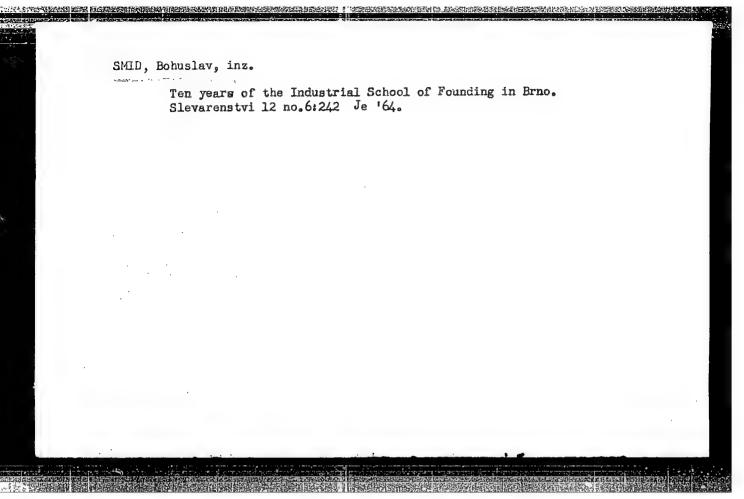
PERIODICAL: VESTNIK. Vol. 33, no. 3, 1958

SMID, B. Silcification as a factor depreciating ore veins, p. 213.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2, Feb. 59, Unclass.

SMID, Bohumil

Survey of the geology and petrography of Teschenite rocks at the northern foot of the Beskydy Mountains. Geol prace 63:53-60 162.



SMID. E.

Situation of the Korean Health Service during Czechoslovak aid. Cas. lek. cesk. 97 no.35:1091 29 Aug 58.

1. Nemocnice Cs. cerveneho krize v Condzimu.

(MEDICINE, MILITARY AND HAVAL

Czech. aid to Korean Health Serv. (Cz))

i serretteranderenden egerktikken en etteraken bedet i predekten bedet. Friederen etteraken beter bestelle i b

SMID, Fr. (OUNZ Kladno - nemocnice)

Experience with the Muntscher technic of open intramedullary nailing. Rozhl. chir. 37 no.6:407-416 June 58.

1. Ortopedicko-traumatologicke odd. OUNZ Kladno, prednosta Br. L. Seidl. (FRACTURES, surg. intramedullary mailing, Kuntscher technic (Cz))

SMID, J.

SeID, J. Mechanizers in the Bilovec machine-tractor station are moving to a new station. p. 23.

Vol. no. 1, Jan. 1957 MACHANISACE ZEMMEDELSTVI AGRICULTURE Czechoslovakia

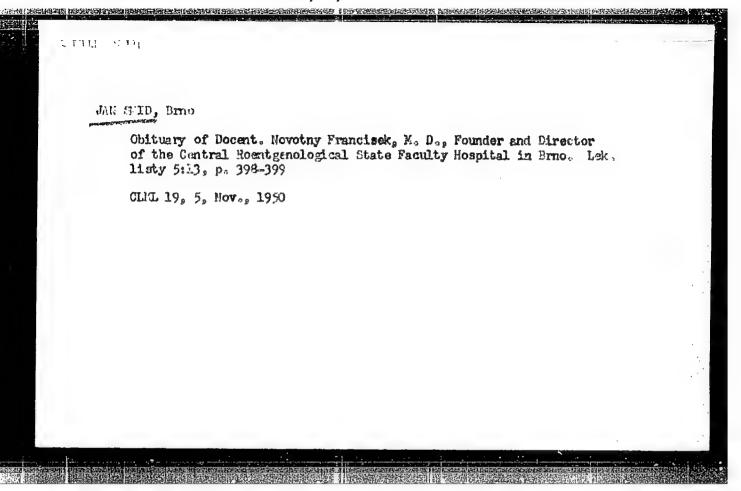
So: East European Accession, Vol. 6, No. 5, May 1957

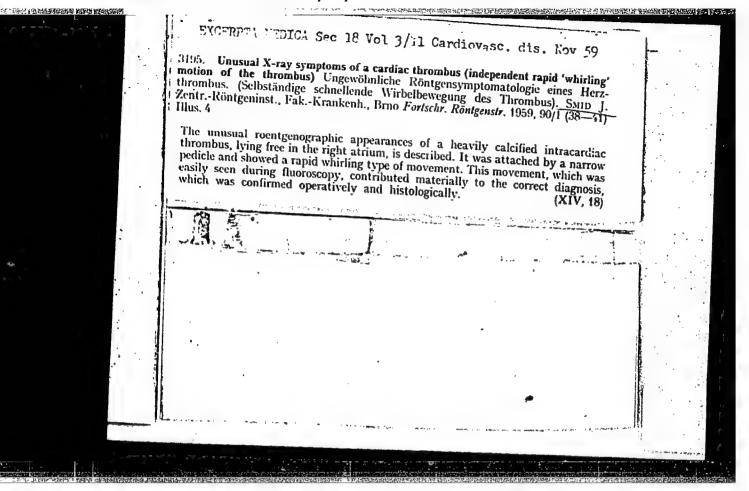
并经验学习 我就这种<del>是我们的我们是我们的</del>是是不会的时候是那就经历世界的的结合是是我的。12号的特殊是他的思想是这些人也是是这些人的,他们也是这些人的,这是一个

JIROVEC, Otto; HORACKOVA, Milada; JIROVCOVA, Marie; JIRA, Jindrich; SMID, Jiri; VALENTOVA, Jirina; VOSTA, Jarcalav

A study of the toxoplasmin reaction. II. Examination of some groups from the normal population. Cesk. epidem. mikrob. imm. 10 no.3: 197-205 '61.

1. Protozoologicka laborator CSAV v Praze. Detske oddeleni fakultni polikliniky ONZ-UNV hl. m. Prahy. Gynekolgocke oddeleni OUNZ v Havlickove Baside. Krajska hyg.-epid. stanice v Ceskych Budejovicich. (TOXOPLASMOSIS immunol.)

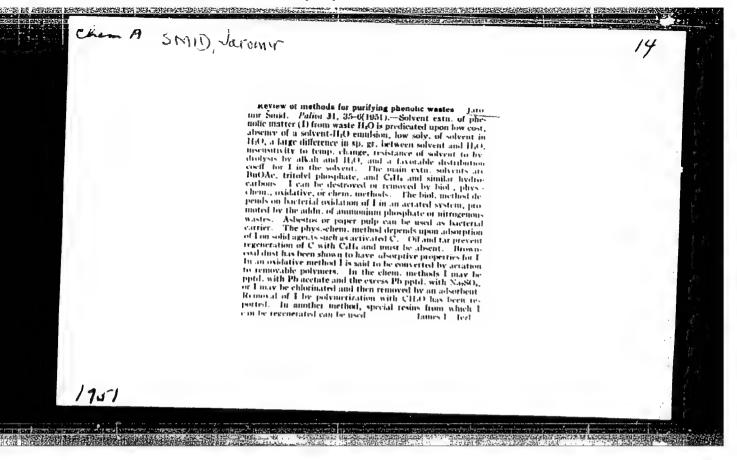


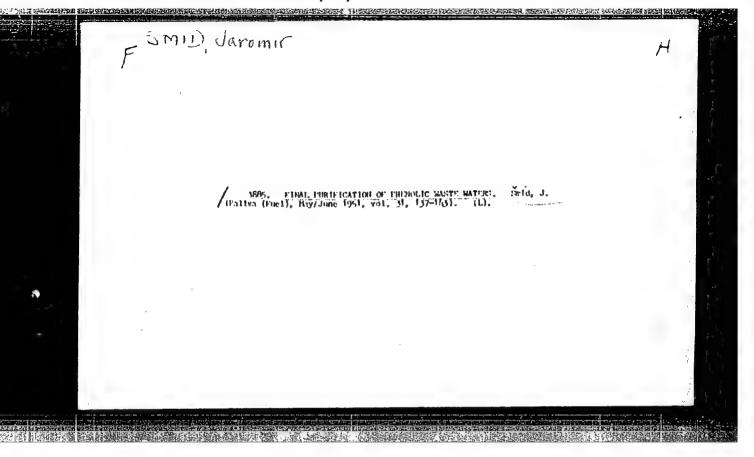


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THURZO, V.; SMIDA, J. SMIDOVA, V.; SIMKOVIC, D.

1. Vyskumny ustav onkologicky v Bratislave; riaditel, clen koresp. SAV, doc.MUDr.V.Thurzo.





SMID, J., RADL, V.

SMID, J., RADL, V.

Characteristics and Testing of Our First Strong Basic Ion Exchange Resint OAL, p. 179.

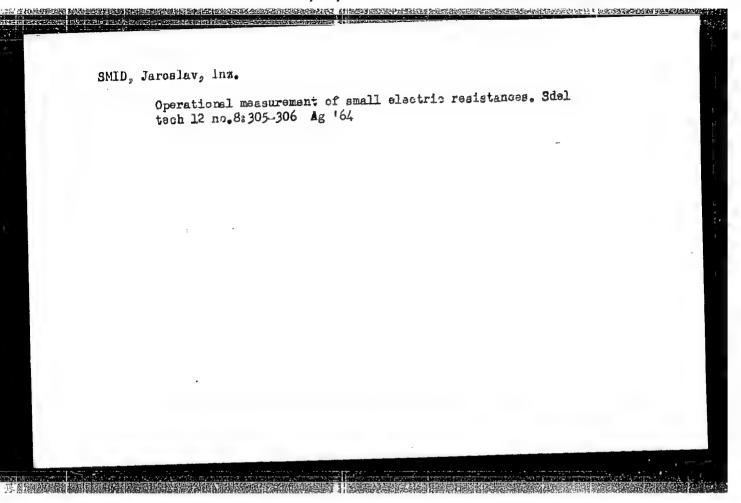
(Chemicky Prumysl, Vol.3, No.5, May. 1953, Praha.)

SO: Monthly List of Hystian Accessions Library of Congress, September 1953, Uncl.

SMID, JAROMIR, ed.

Menice iontu, jejich vlastnosti a pouziti. Josef Burianek (et al. vyd. 1.) Praha, Statni nakl. technicke literatury, 1954. 629 p. (Ion exchangers, their properties and use. 1st ed. illus., bibl., footnotes, indexes, tables.)

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 12
December 1956



PORUBA, Bohumil, inz.; SMID, Jaroslav

Design of the Ostrava locomotive depot. Zel dop tech 12 no.11:305-306 '64.

1. Locomotive depot, Ostrava.

SMID, Jaroslav, inz.

Transistor megohmmeter 8 kv. Elektrotechnik 17 no.9:268 S 162.

1. Vychodoceske elektrarny Trutnov.

#### Z/039/63/024/004/006/007 E073/E335

AUTHOR:

Smid, Jaroslav, Engineer

TITLE:

Load characteristics of cascade rectifiers

PERIODICAL: Slaboproudý obzor, v. 24, no. 4, 1963, 225 - 223

The basic properties of cascade rectifiers are described, paying special attention to their application as very high DC voltage sources. Electrical phenomena in cascade rectifiers under various loads and various numbers of stages are investigated with respect to the component parts used and the supply frequency. The responses calculated for cascade rectifiers with 2 to 10 stages have been confirmed by experiment. The results show that to permit accurate judgment of the activity of each cascade rectifier, the calculations have to be supplemented by data measured directly on the components used. The characteristics given in the paper may serve as a base for preliminary design for any cascade rectifier. 2-to 4-stage circuits are favourable in numerous practical applications, whilst a larger number of stages are favourable only for use as static voltage sources. It is advantageous to use a higher supply frequency since in this case the Card 1/2

Z/039/63/024/004/006/007
Load characteristics of .... E073/E335

capacitance can be much lower. There are 6 figures.

ASSOCIATION: Východočeské energetické závody, n.p., Trutnov

(East Bohemian Powerengineering Plants, Trutnov)

SUBMITTED: November 19, 1962

Card 2/2

51832-65 CZ/0014/64/000/006/0305/0306 ACCESSION NR: AP5016853 Smid. Jaroslav (Engineer) ATHOR: TITLE: Service measurement of miniature resistors SOURCE: Sdelovaci technika, no. 8, 1964, 305-306 TOPIC TAGS: electric resistance, resistance bridge, resistor ABSTRACT: Described are methods of measuring low electric resistance. Advantages of various types of circuits are compared and their usefulness in electronic Yegulation is pointed out. Resistance of conductors is analyzed and measuring methods described, including the use of magnetic amplifiers. Also described is an A. C. bridge with the resistance transformation, including the main principles to be observed in designing it. Orig. art. has 6 figures and 8 formulas. ASSOCIATION: none ENCL: SUBMITTED: 00 OTHER: 006 NO REF SOV:

EWP(j)/T IJ!(c) ACC NR: AP6033605 SOURCE CODE: CZ/0043/66/000/001/0043/0054 AUTHOR: Simek, Ivan-Shimek, T. (Engineer; Candidate of sciences; Bratislava); Smid, Jaroslav-Shmid, Ya. (Engineer; Bratislava) ORG: [Simek] Department of Organic Technology, Slovak Technical University, B Bratislava (Katedra organickej technologie Slovenskej vysokej skoly technickej); [Smid] Slovak Petroleum n.p., Bratislava (Slovnaft, n.p.) TITIE: Influence of atacticity and crystallinity upon the dynamic and mechanical properties of polypropylene SOURCE: Chemicke zvesti, no. 1, 1966, 43-54 TOPIC TAGS: polypropylene plastic, crystalline polymer, mechanical property ABSTRACT: The dynamic and mechanical properties of polypropylene determined by the method of free torsional vibrations are related to the densimetric and extraction data of polypropylene characteristic for its atacticity and crystallinity. Orig. art. has: 6 figures and 2 tables. [JPRS: 34,805] SUB CODE: 11, 20 / SUBM DATE: 23Jul65 / ORIG REF: 003 / SOV REF: Card 1/1

MORAVEC, Vaclav; SMID, Jiri

Experience with planning, controlling and evaluation of the collective operation of machinery. Prace mzda 10 no.12:544-548 D '62.

l. Vyrobni hospodarska jednotka Vlna, Brno.

POUPA, Vladimir; SMID, Josef

Operational measurement in the automatic telephone network of the Gzechoslovak Railroads. Zel dop tech. 11 no.8:247-249 '63.

SMID, J.

2nd National Conference on Monocrystals in Turnov. p. 21
SDELOVACI TECHNIKA. Praha, Czechoslovakia, Vol. 3, No. 1, Jan. 1955

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 8, August 1959 Uncl.

SMID, J.; HIZA, L.; TITW, J.

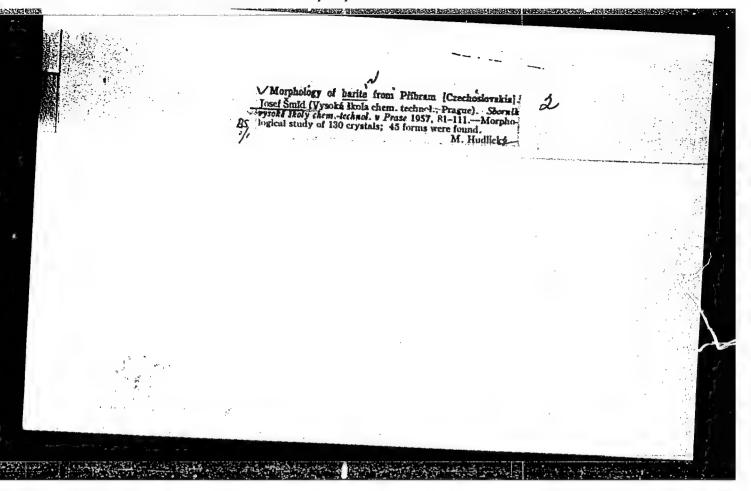
Technique in creating standards for manual glass production. p. 74. SKIAR A KORALAK. (Ministerstvo lehkeho prumyslu) Praha. Vol. 5, no. 11, Nov. 1955.

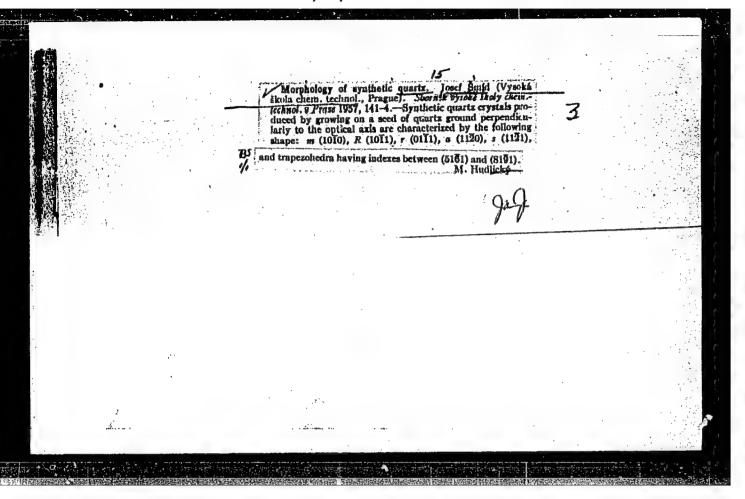
SOURCE: Wast European Accessions List, Vol. 5, no. 9, September 1956

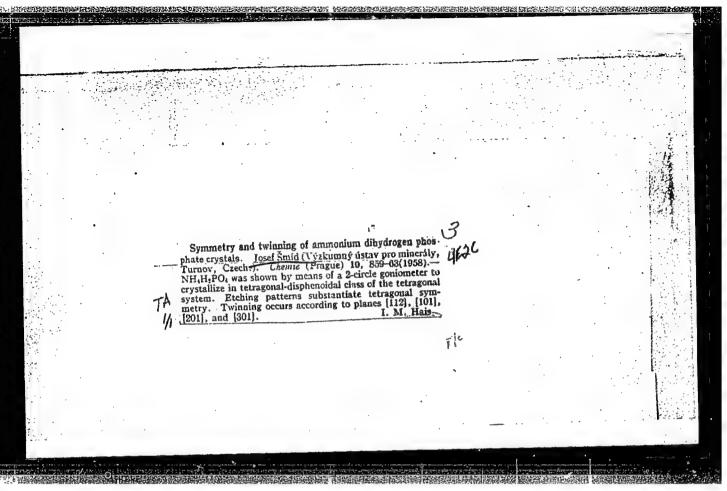
SMID, J.; HIZA, L.; VITEK, J.

Technique of determining standards in manual production of glassware. p. 132. SKLAR A KERMANIK. (Ministerstvo lehkeho prumyslu) Praha. Vol. 6, no. 6, June 1956.

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 5, no. 12, December 1956.



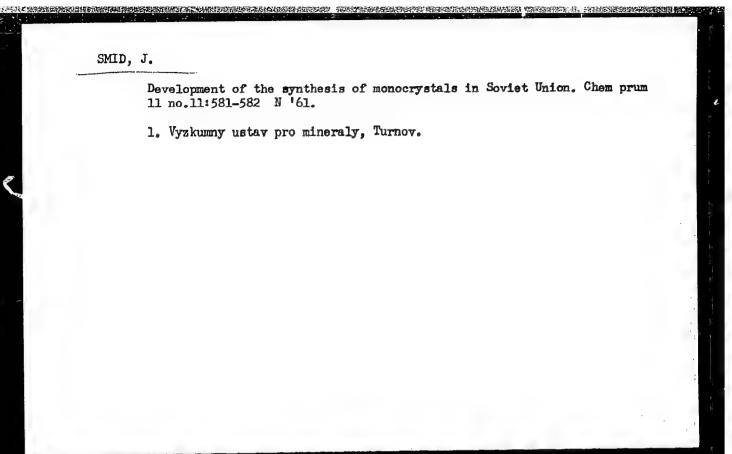




SMID, Josef

A new method of examining crystal surface. Sbor chem tech no.3, part 2:81-84 159.

1. Katedra mineralogie, Vysoka skola chemicko-technologicka, Praha a Vyzkumny ustav pro mineraly v Turnove.



\$/081/62/000/022/030/068 B158/B101

AUTHORS: Šmid, Josef, Kvapil, Josef, Hnizdil, Jindřich

TITLE: Method of preventing formation of parasitic crystals

PERIODICAL: Referativnyy zhumnal. Khimiya, no. 22, 1962, 292, abstract 22194 (Czechoslovak patent 98594; February 15, 1961)

TEXT: When single crystals are grown by existing methods, particularly in crystallizers operating at a high temperature under thermostatic conditions, parasitic crystals may form on the walls of the apparatus and on the surface of the mother liquor, lowering the product yield and hampering the process. This defect is eliminated by allowing an unsaturated layer to form on the surface of the mother liquor as a result of constant dripping of a solvent which condenses on the surface of a cooler in the upper part of the vapor space of a crystallizer. The tubes of the cooler are best arranged along the walls of the apparatus. [Abstracter's note: Complete translation.]

Card 1/1

#### EWP(w)/EWA(d)/T/EWP(t) 18113-66

ACC NR. AP6010388

SOURCE CODE: CZ/0032/65/015/006/0440/0443

Pilous, V. (Engineer; Candidate of sciences); Smid, J.

ORG: Research Institute, V. I. Lenin Works, Plzen (Zavody V. I. Lenina, Vyzkumny

ustav)

TITLE: Fatigue limit of welded joints of Czechoslovak structural steel CSN 41

Strojirenstvi, v. 15, no. 6, 1965, 440-443 SOURCE:

TOPIC TAGS: structural steel, weld heat treatment, metal heat treatment, welding technology, fatigue test, mechanical fatigue, CNS 41 1523.1 structural steel,

CNS 41 1373 structural steel

The fatigue limits of CSN 41 1523.1 and CSN 41 1373 steels are specified and compared with the fatigue limits of butt welds of these materials. The presented values were

verified in a series of tests at the authors' institute. There is a pronounced

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relationship between	oon the fa	tigue limi	t and th	e employ	red weld	ing tech	nology and	,
subsequent heat t	reatment.	Varues on	derrion -		محجم جالب ما	ldahlau	ateels C	1
also are given.	Fieros or	Sphireeoro	ntage.	This par	per was	presente	d by E. Je	linek,
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SMID, Karel, inz.; JOKL, Miloslav, inz. GSc.

Microclimate of worksites in metallurgical plants. Edravet tech 7 no.5:208-216 64.

Protection from radiating heat, designing directives: Branch Standard UNC 43 9005. Ibid.:236-238.

1. State Institute Hutni projekt Prague and Institute of Industrial Hygiene and Occupational Diseases, Prague.

OFFL, Ladislav, inz. dr CSc.; SMID, Karel, inz.

Aeration of rolling mills. Hut listy 19 no.1:48-50 Ja 64.

1. Ustav hygieny prace a chorot z povolani, Praha (for Cppl). 2. Statni ustav pro projektovani hutnich zavodu Hutni projekt, Praha (for Smid).

SMID, Karel, inz.; OPPL, Ladislav, inz. dr. CSc.

Aeration of steel plants. Hut listy 19 no. 2: 126-128 F '64.

1. Hutni projekt, Praha (for Smid).
2. Ustav hygieny prace a chorob z povolani, Praha (for Oppl).

L 62762-65 CZ/0034/64/000/012/0877/0882 ACCESSION NR: AP5021408 AUTHOR: Oppl, Ladislav (Engineer, Doctor, Candidate of sciences); Sur (Engineer) TITLE: Ventilation of forging shops SOURCE: Hutnicke listy, no. 12, 1964, 877-882 TOPIC TAGS: metal industry, ventilation engineering, ventilation fan, working conditions ABSTRACT: The article describes a study that took place in 1959 to 1963 in 31 shops of 10 different plants. Temperature increases, concentration of dust and of carbon monoxide were investigated. On the basis of the study a suitable method for the the designing of ventilation ducts was established. In some of the shops temperatures of 5 - 10°C above the surrounding areas were found. Orig. art. has: 5 figures, 7 tables, 2 equations. ASSOCIATION: Oppl - Ustav hygieny prace a chorob z povolani, Prague (Institute of Hygiene of Work and Occupational Diseases); Smid - Hutni projekt, Prague (Metallurgical Project) Card 1/2

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ACC NR: AP6026585	SOURCE CODE: CZ/0034/66/000/002/0077/0083	
Shmid, K. (Engineer) OBG: Institute for Work Hygiel	M. (Engineer; Candidate of sciences); Smid, Karel ene and Occupational Diseases, Prague (Ustav hygieny Betallurgical Projects, Prague (Hutni projekt)	
TITLE: Temperatures at the preevaluation	roduction stations in metallurgical plants and their	
SOURCE: Hutnicke listy, no. 2	2, 1966, 77–83	
TOPIC TAGS: metallurgic indus	stry, industrial condition	
conditions in the locations who methods described P4SR index, Better means of the evaluation locations in various plants in investigation were used to pre-	ed at present for the evaluation of temperature here the operators must work are discussed. Among the heat stress index, and Giovanni's index are evaluated. In of the working conditions are suggested. 270 in Czechoslovakia were investigated. Results of this epare standards for protection against radiant heat. In table. [Based on authors' Eng. abstract]	
SUB CODE: 05 / SUBM DATE: OTH REF: 006	none / ORIG REF: 004 / SOV REF: 001	
Card 1/1 as	UDC: 669:389.6: 669:613/614	上德

SMID, L.

"Task of the machinery industry in assuring further development of our economy." p. 241.

STROJIRENSTVI. (Ministerstvo tezkeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju). Praha, Czechoslovakia, Vol. 9, No. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

SMID, Ladislav (R.S. Cehoslovaca)

Specialization in the machine constructing industry. Probleme econ 15 no.8:36-48 Ag '62.

SMID, Ladislav, inz.

Importance of international division of labor for technical development. Tech praca 14 no.12:947-949 D '62.

1. Statni planovaci komise, Praha.

12318-63 EWP(1)/BDS S/081/63/000/005/075/075 AUTHOR: Smid, M. The separation of cotton from mixed cotton and polyamide or polyether TITLE: fibers and determination of the degree of polymerization of cellulose Referativnyy zhurnal, Khimiya, no. 5, 1963, 653, abstract 5T554 Textil (CSSR), v. 17, no. 6, 224-225) PERYODICAL: TEXT: The separation of cotton (KhL) from its mixtures with polyamide or polyester fibers was conducted by means of selection of suitable solvents, which dissolved the polyamide or polyester parts of the mixture, but without damaging the KhL. The best results with mixture of polyamide fiber and KhL were obtained at 50°C using a saturated solution of ZnCl2 or CaCl2 in CH30H. The dependence of the degree of separation of KhL on the duration of the action of CaCl solution was investigated. In the mixture KhL-polyester fiber the best results were obtained by using a mixture: phenol with monochlorobenzene (2:1), at 40°C for 24 hours or for 5 hours at 60°C. The determination of the average degree of polymerization of cellulose of the separated KhL by this means showed that under these conditions no chemical damage occurs. Therefore, there is a possibility of observing the influence of separate operations of the technological process on the chemical destruction of KhL in mixtures. I. Kalentarov Card 1/2/

SMID,N.; BRIAN,M.

Ergot pigments. Cesk. farm. 14 no.1:21-25 Ja 165

1. Vyzkumny ustav pro farmacii a biochemii, Praha.

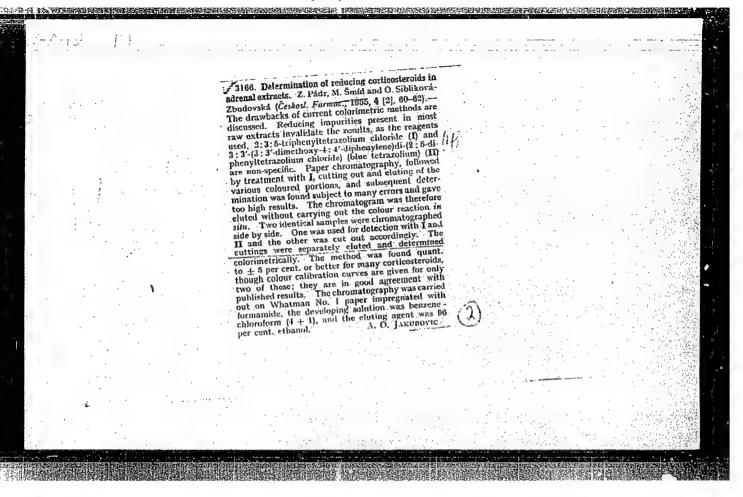
SMEE, Miroslav

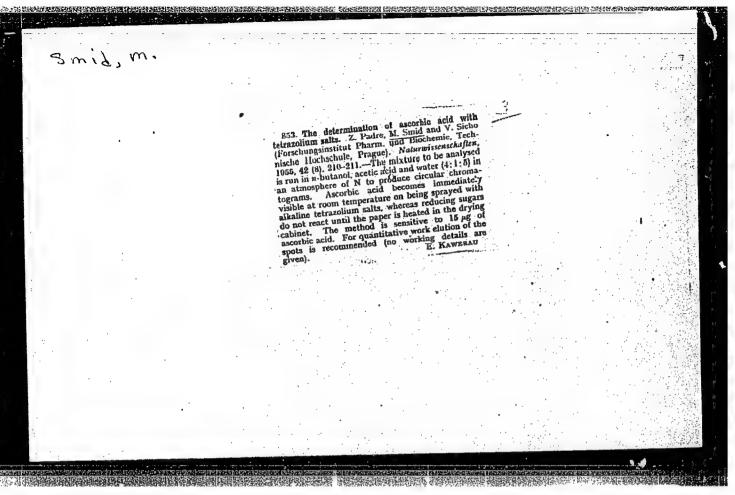
Designing worksites for we in from the entercommetric point of riew. Stroj vyr 13 no.2:82-94 7 '65.

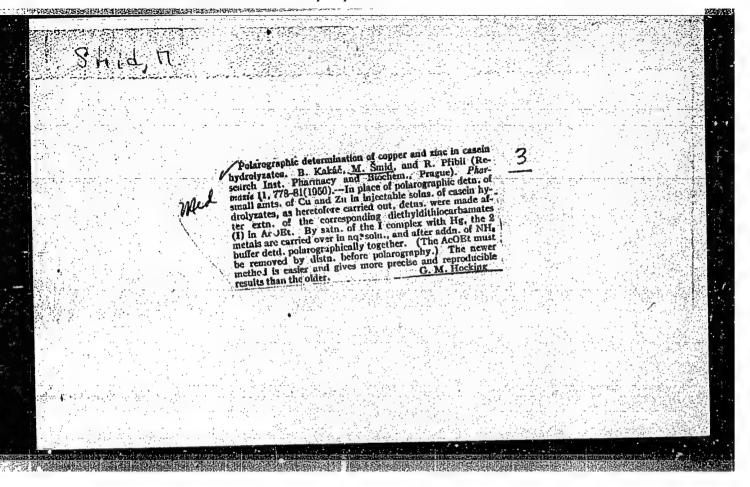
1. Zevody V.I.Lenina National Enterprise, Floan.

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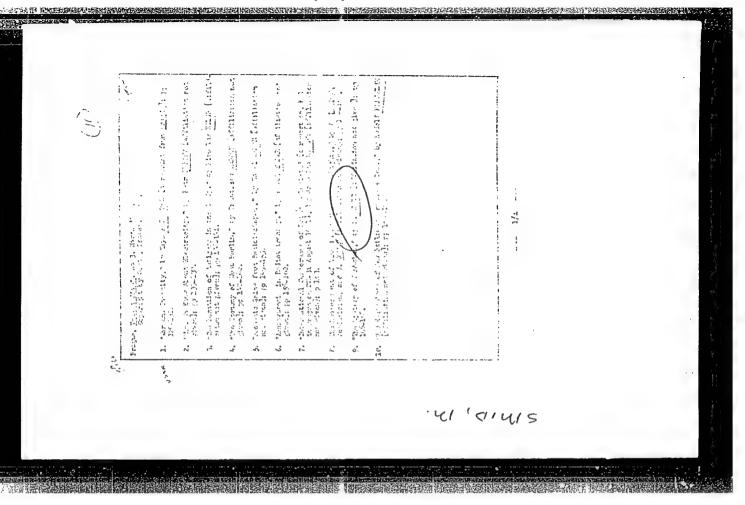
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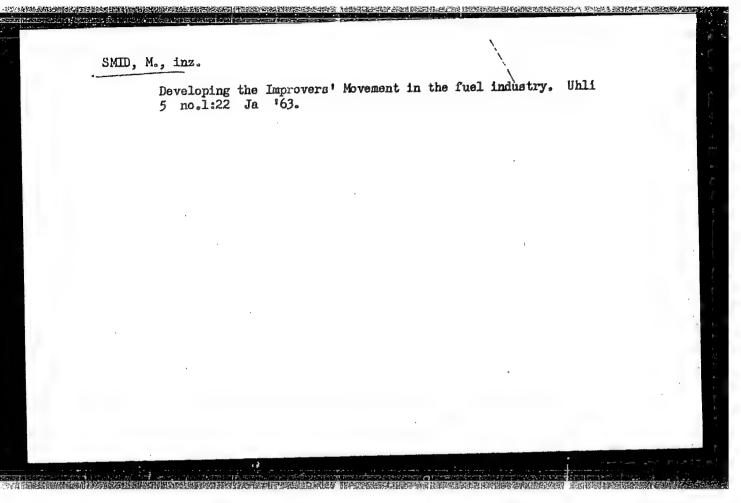




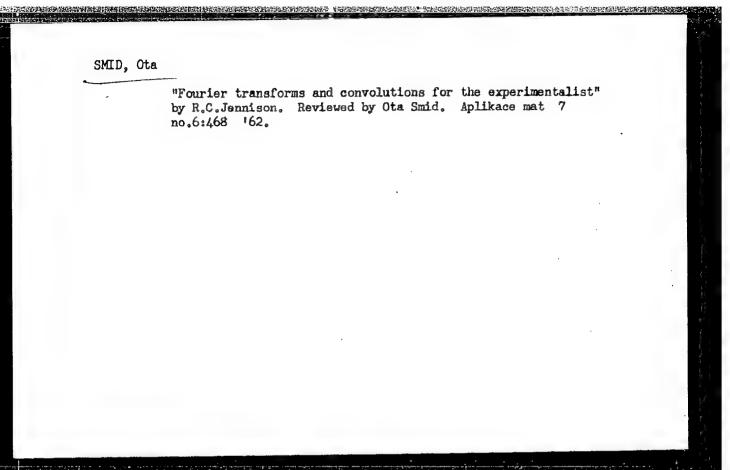


"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651510003-9





ACC NR: AP6000463 CZ/0031/65/013/002/0082/0084 AUTHOR: Smid Miroslav. ORG: V. I. Lenin Plants, n. p., Industrial Esthetics Group, Plzen (Zavody V. I. Lenina, n. p., skupina prumyslove estetiky) TITLE: Designing of workplaces for women from the anthropometric point of view SOURCE: Strojirenska vyroba, v. 13, no. 2, 1965, 82-84 TOPIC TAGS: industrial condition, working condition ABSTRACT: The article presents the results of measurements of 26 dimensions of women's bodies (e.g., height, eye-level and shoulder-level standing and seated, length of forearm, etc) for use in designing desks, benches and panels at which women work. Orig. art. has: 4 figures, 1 table. /JPRS/ SUB CODE: GO / SUBM DATE: none



SMID, P.

"Why A Thrust Engine?", P. 498, (SVET MOTORU, Vol. 8, No. 16, July 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (ERAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

是**是我们的现在分词,**在这个人的,我们们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们

SMID, Rayner.

Dissidence harms international solidarity. Vsem. prof. dvizh. no.12: 26-28 D '57. (MIRA 11:1)

1. Sekretar'-kaznachey Yedinogo profsoyuznogo tsentra Gollandii. (Netherlands-Trade unions)

EMID, S.

Erozek, R.; Travnicek, F. Production of castings from magnesium alloys. p. 193. SLEVARENSTVI, Praha, Vol. 3, no. 7, July 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

SMID, V., inz. CSc.

Flow in rotors of radial turbocompressors. Strojirenstvi
14 no.9:653-656 S '64.

1. Czech Higher School of Technology, Prague.

SNID, Vekoslav

SMID, Vekoslav

Impression for detachable prosthesis. Zobozdrav. vest., Ljubljana

8 no.6:216-220 1953.

1. Referat na strokovnem sestanku Drustva zobozdravstvenih delavcev
Slovenije junija 1953.

(DENTAL PROSTHESIS)

\*impression for detachable prosth.)

